

SEQUENCE LISTING

<110> Bazan, J. Fernando de Waal Malefyt, Rene Liu, Yong-Jun Soumelis, Vassili

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<120> MAMMALIAN CYTOKINES; RELATED REAGENTS AND METHODS
<130> DX0903K1
<140> US 09/963,347
<141> 2001-09-25
<150> US 09/399,492
<151> 1999-09-20
<150> US 60/131,298
<151> 1999-04-27
<150> US 60/101,318
<151> 1998-09-21
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Wu Tyr Ma. De. Ser Ma. Ser Ene Ang Lya Die Ene Die Leu Dib Deu
20 - 15 - 10
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- 5	-1	1		5		10			
att aaa gca Ile Lys Ala	gcc tat ct Ala Tyr Le 15	agt act Ser Thr	att tct Ile Ser 20	aaa gac ctg Lys Asp Lev	g att aca 1 Ile Thr 25	tat 196 Tyr			
atg agt ggg Met Ser Gly									
aat cgg cca Asn Arg Pro 45	cat tgc ct His Cys Le	act gaa Thr Glu 50	atc cag Ile Gln	agc cta acc Ser Leu Th: 55	ttc aat Phe Asn	ccc 292 Pro			
aac cgc cgn Asn Arg Arg 60	gtg cgg tcg Val Arg Se	g ctc gcc Leu Ala 65	aaa gaa Lys Glu	atg ttc gcc Met Phe Ala 70	atg aaa Met Lys	act 340 Thr			
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Val Ser Phe -15	Arg Lys Il	e Phe Ile -10	Leu Gln	Leu Val Gly	/ Leu Val	Leu			
Thr Tyr Asp	Phe Thr As	n Cys Asp	Phe Glu	Lys Ile Ly:	s Ala Ala	Tyr 15			
Leu Ser Thr	lle Ser Ly	s Asp Leu	Ile Thr	Tyr Met Se	c Gly Thr	Lys			

Leu Thr Glu Ile Gln Ser Leu Thr Phe Asn Pro Asn Arg Arg Val Arg

Ser	Leu	Ala	Lys	Glu	Met	Phe	Ala	Met	Lys	Thr	Lys	Ala	Ala	Leu	Ala
	65					70					75				

Ile Trp Cys Pro Gly Tyr Ser Glu Thr Gln Ile Asn Ala Thr Gln Ala 80 85 90 95

Met Lys Lys Arg Lys Arg Lys Val Thr Thr Asn Lys Cys Leu Glu 100 105 110

Gln Val Ser Gln Leu 115

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Met Phe Pro Phe Ala Leu Leu Tyr Val Leu Ser Val Ser Phe Arg Lys
-25 -20 -15

48

96

atc ttc atc tta caa ctt gta ggg ctg gtg tta act tac gac ttc act
Lie Phe Ile Leu Gln Leu Val Gly Leu Val Leu Thr Tyr Asp Phe Thr

aac tgt gac ttt gag aag att aaa gca gcc tat ctc agt act att tct
Asn Cys Asp Phe Glu Lys Ile Lys Ala Ala Tyr Leu Ser Thr Ile Ser
10 15 20

aaa gac ctg att aca tat atg agt ggg acc aaa agt acc gag ttc aac
Lys Asp Leu Ile Thr Tyr Met Ser Gly Thr Lys Ser Thr Glu Phe Asn
25 30 35

i shi ini iye waxa baka baka anka nga mga mga mga tan naka naka naka nga naka mga

Ser Leu Thr Phe Ash Fro Thr Ala Sly Cys Ala Ser Leu Ala Lys Slu 55 60 65

grant calculates on a second control and at it as taken the agency of the

75 80

384

432

480

70

tat toq qaa act cag ata aat got act cag goa atg aag aag agg aga Tyr Ser Glu Thr Gln Ile Asn Ala Thr Gln Ala Met Lys Lys Arg Arg 90 aaa agg aaa gtc aca acc aat aaa tgt ctg gaa caa gtg tca caa tta Lys Arg Lys Val Thr Thr Asn Lys Cys Leu Glu Gln Val Ser Gln Leu 110 105 caa gga ttg tgg cgt cgc ttc aat cga cct tta ctg aaa caa cag taa Gln Gly Leu Trp Arg Arg Phe Asn Arg Pro Leu Leu Lys Gln Gln 125 120 <210> 4 <211> 159 <212> PRT <213> Homo sapiens <400> 4 Met Phe Pro Phe Ala Leu Leu Tyr Val Leu Ser Val Ser Phe Arg Lys -20 -25 Ile Phe Ile Leu Gln Leu Val Gly Leu Val Leu Thr Tyr Asp Phe Thr -5 -1 1 Asn Cys Asp Phe Glu Lys Ile Lys Ala Ala Tyr Leu Ser Thr Ile Ser 15 10 Lys Asp Leu Ile Thr Tyr Met Ser Gly Thr Lys Ser Thr Glu Phe Asn Asn Thr Val Ser Cys Ser Asn Arg Pro His Cys Leu Thr Glu Ile Gln 50 45 40 Ser Leu Thr Phe Asn Pro Thr Ala Gly Cys Ala Ser Leu Ala Lys Glu Met Phe Ala Met Lys Thr Lys Ala Ala Leu Ala Ile Trp Cys Pro Gly 75 Tyr Ser Glu Thr Gln Ile Asn Ala Thr Gln Ala Met Lys Lys Arg Arg

Gln Gly Leu Trp Arg Arg Phe Asn Arg Pro Leu Leu Lys Gln Gln

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Asp Gly Gly Ala Tyr Gln Asn Val Leu Met Val Ser Ile Asp Asp Leu 35 40 45

Asp Asn Met Ile Asn Phe Asp Ser Asn Cys Leu Asn Asn Glu Pro Asn 50 55 60

Phe Phe Lys Lys His Ser Cys Asp Asp Asn Lys Glu Ala Ser Phe Leu 65 70 75 80

Asn Arg Ala Ala Arg Lys Leu Lys Gln Phe Leu Lys Met Asn Ile Ser 85 90 95

Asp Asp Phe Lys Leu His Leu Ser Thr Val Ser Gln Gly Thr Leu Thr 100 105 110

Leu Leu Asn Cys Thr Ser Lys Gly Lys Gly Arg Lys Pro Pro Ser Leu 115 120 125

Gly Glu Ala Gln Pro Thr Lys Asn Leu Glu Glu Asn Lys Ser Leu Lys 130 135 140

Glu Gln Arg Lys Gln Asn Asp Leu Cys Phe Leu Lys Ile Leu Leu Gln 145 150 155 160

Lys Ile Lys Thr Cys Trp Asn Lys Ile Leu Arg Gly Ile Thr Glu His 165 170 175

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Asp Gly Gly Ala Tyr Gln Asn Val Leu Met Val Asn Ile Asp Asp Leu 35

Asp Asn Met Ile Asn Phe Asp Ser Asn Cys Leu Asn Asn Glu Pro Asn 55

Phe Phe Lys Lys His Ser Cys Asp Asp Asn Lys Glu Ala Ser Phe Leu 75

Asn Arg Ala Ser Arg Lys Leu Arg Gln Phe Leu Lys Met Asn Ile Ser

Asp Asp Phe Lys Leu His Leu Ser Thr Val Ser Gln Gly Thr Leu Thr 100 105 110

Leu Leu Asn Cys Thr Ser Lys Gly Lys Gly Arg Lys Pro Pro Ser Leu 120 115

Ser Glu Ala Gln Pro Thr Lys Asn Leu Glu Glu Asn Lys Ser Ser Lys 130 135

Glu Gln Lys Lys Gln Asn Asp Leu Cys Phe Leu Lys Ile Leu Leu Gln 155 160 145 150

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Met Phe His Val Ser Phe Arg Tyr Ile Phe Gly Leu Pro Pro Leu Ile 1.0

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Leu Asp Ser Met Lys Glu Ile Gly Ser Asn Cys Leu Asn Asn Glu Phe 50 55 60

Asn Phe Phe Lys Arg His Ile Cys Asp Ala Asn Lys Glu Gly Met Phe 65 70 75 80

Leu Phe Arg Ala Ala Arg Lys Leu Arg Gln Phe Leu Lys Met Asn Ser 85 90 95

Thr Gly Asp Phe Asp Leu His Leu Leu Lys Val Ser Glu Gly Thr Thr 100 $$ 105 $$ 110

Ile Leu Leu Asn Cys Thr Gly Gln Val Lys Gly Arg Lys Pro Ala Ala 115 120 125

Leu Gly Glu Ala Gln Pro Thr Lys Ser Leu Glu Glu Asn Lys Ser Leu 130 135 140

Lys Glu Gln Lys Lys Leu Asn Asp Leu Cys Phe Leu Lys Arg Leu Leu 145 150 155 160

Gln Glu Ile Lys Thr Cys Trp Asn Lys Ile Leu Met Gly Thr Lys Glu 165 170 175

His

<210> 8

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<212> PRT

<213> Mus musculus

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Leu Val Leu Pro Val Thr Ser Ser Glu Cys His Ile Lys Asp Lys 20 25 30

Asp Lye Met Inn N.y Inn Asp .en Ass Sy. (1 edit un 50 50 55

Asn Arg Ala Ala Arg Lys Leu Lys Gln Phe Leu Lys Met Asn Ile Ser 85 90 95

Glu Glu Phe Asn Val His Leu Leu Thr Val Ser Gln Gly Thr Gln Thr 100 105 110

Leu Val Asn Cys Thr Ser Lys Glu Glu Lys Asn Val Lys Glu Gln Lys 115 120 125

Lys Asn Asp Ala Cys Phe Leu Lys Arg Leu Leu Arg Glu Ile Lys Thr 130 135 140

Cys Trp Asn Lys Ile Leu Lys Gly Ser Ile 145 150

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20 25 30

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Asp Lys Met Thr Gly Thr Asp Ser Asp Cys Pro Asn Asn Glu Pro Asn 50 55 60

Phe Phe Lys Lys His Leu Cys Asp Asp Thr Lys Glu Ala Ala Phe Leu 65 70 75 80

Asn Arg Ala Arg Lys Leu Arg Gln Phe Leu Lys Met Asn Ile Ser $_{\text{QC}}$ 90 95

Leu Val Ash Cys Thr Ser Lys Glu Glu Lys Thr Ile Lys Glu Gln Lys





Lys Asn Asp Pro Cys Phe Leu Lys Arg Leu Leu Arg Glu Ile Lys Thr 130 135 140

Cys Trp Asn Lys Ile Leu Lys Gly Ser Ile 145 150